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CURRICULUM VITAE *(ENGLISH)*

MAXIMILIAN IGNACIO WILLEMBRINCK SANTANDER

PROFILE

I hold a degree in computer engineering from the University of Chile and am currently pursuing a PhD at the University of Lille. Looking for a senior position in software development. With several years of experience in the field of computer science, I have primarily focused on research, development, and innovation. My professional expertise lies in system software development, graphics tools engineering, and 3D applications specialization. In recent years, I have worked as a researcher on debugging tools. I relocated to France in 2018, and I am eager to advance my career in this new environment.

WORK EXPERIENCE

RESEARCHER AND DOCTORAL STUDENT, INRIA AND UNIVERSITY OF LILLE *(France)*

October 2020 – November 2023.

Worked as a researcher debugging specialist in the team Evref, at Inria, during PhD studies.

Development of prototype time-traveling debuggers for Pharo programming language.

Details on research, publications and awards, available at: https://www.willembrinck.com

Technical concepts: Pharo, Smalltalk, Debugging, Continuous Integration

SOFTWARE ENGINEER, OLEA-MEDICAL (CANON MEDICAL SYSTEMS) *(France)*

September 2019 – September 2020.

Work over software for cutting-edge latest Canon / Olea Medical products, mainly targeting intelligent MRI & CT imaging applications. Strong emphasis in team and work organization, code quality, automated testing, and a robust design-and-development workflow.

SOFTWARE DEVELOPER, MINEBRIDGE SOFTWARE *(Canada, remote work)*

November 2017 – August 2019

Design and development of a plotting application. Using a highly commended plotting library (matplotlib) the objective is to provide a user-friendly, yet precise, application to create high quality plots based on specific Mining industry data, while allowing for interoperability with other applications of the firm. Meetings with client, for coordination and requirements acquisition. Part-time remote work.

Technical concepts: Python3, PyQt5, matplotlib, OpenGL

FULL STACK DEVELOPER, INBASA *(Chile)*

June 2016 – December 2016

Design and development of a statistics web platform for educational entities. Consists in the visualization of statistical data, providing meaningful information for teaching and administrative management. Meetings with client and teaching team, for coordination and objectives definition. Part-time remote work.

Technical concepts: Asp.Net MVC, VB.Net, NVD3 (Visualizations), SQLServer

3D WEB SOFTWARE DEVELOPER, INTERNATIONAL QUALITY SYSTEMS *(Chile)*

March 2016 – March 2017

Design and development of a 3D web application, based in the Unity game engine, for the visualization of industrial equipment. Consists in the visual three-dimensional representation

of inspection plans, with real-time information updates, that can be accessed through most common web browsers. Meeting with client for requirements acquisition and coordination. Objectives-based remote work.

Technical concepts: Asp.Net MVC, VB.Net, Unity (C#), SQLServer

SOFTWARE DEVELOPER, INBASA *(Chile)*

June 2015 – December 2018

Design and development of a desktop platform for educational entities. Consists in a tool to assist teaching tasks related to course's tests and exams generation with an automated corrections system. All this to produce statistical data. Emphasis on system modeling, MS-Office interoperability, and image processing and recognition programming. Meetings with teaching and administrative teams, for coordination and objectives definition. Objectives-based remote work.

Technical concepts: VB.Net, Windows Forms, OpenCV, C++, C++/CLI, SQLServer, C++ and .Net Framework interoperability

WEB DEVELOPER, INTERNATIONAL QUALITY SYSTEMS *(Chile)*

November 2014 – February 2015

Developer in web application for a virtual clinic with telemedicine services. Consists of a platform which aids to manage, appoint, and perform medical consultations between patients and medical professionals, making use of teleconference tools. Emphasis on system modeling, web development, research and integration of video conference technologies for web browsers, based on WebRTC. Meetings with client for requirements acquisition and coordination with the rest of the development team. Objectives-based remote work.

Technical concepts: Asp.Net MVC, C#, MS Azure, WebRTC, SQL Server

SOFTWARE DEVELOPER CAD 3D, INTERNATIONAL QUALITY SYSTEMS *(Chile)*

March 2010 – March 2017

Design and development of a 3D desktop application for the visualization of industrial equipment. Consists of a custom-made graphic engine for a three-dimensional representation of elements related to inspection plans and results. Additionally, providing design and modeling tools to draw such equipment within the application itself. Emphasis on low-level computer graphics, high performance and engine optimizations. Meetings with client for requirements acquisition. Objectives-based remote work.

Technical concepts: VB.Net, C#, OpenGL, GLSL, OpenTK, SDL, C++/CLI, C++ and .Net Framework interoperability

ACADEMIC FORMATION

2020-2023 DOCTORATE

Doctorate in informatics at the University of Lille, France
Scheduled to finish by the end of November 2023.

2010-2015 POSTGRADUATE

Ingeniero Civil en Computación (*Computer Science Engineering),* Universidad de Chile.
Graduated with Maximum Distinction

2005-2010 UNDERGRADUATE

Licenciado en ciencias, mención computación - Universidad de Chile.

TECHNICAL KNOWLEDGE

PROGRAMMING

.Net, .Net Core, and .Net Framework (VB.Net, C#, C++/CLI, Asp.Net MVC), C++(03-17), Python, Java, PHP, JavaScript, Pharo, Smalltalk, RESTful back ends

DATABASES

MySQL, SQL Server

WEB
HTML 5, CSS3, JQuery, Ext JS, CakePhp Framework
COMPUTER GRAPHICS
OpenGL 2.0, OpenGL 3.0, GLSL, Unity, Unity Shading Language

CERTIFICATIONS

MICROSOFT CERTIFIED PROFESSIONAL
Verifiable at:
https://learn.microsoft.com/en-us/users/maxwillembrincks-5077/transcript/7669zuzek1mnmnq

1. MCSA: WEB APPLICATIONS
   A56TF8-E4AC15 - October 2016

2. MICROSOFT CERTIFIED SOLUTIONS DEVELOPER: WEB APPLICATIONS (INACTIVE)
   758245-504DBF - June 2014

3. MICROSOFT CERTIFIED PROFESSIONAL
   DC8946-914W95 - April 2014

4. MICROSOFT SPECIALIST: PROGRAMMING IN HTML5 WITH JAVASCRIPT AND CSS3
   2E3HD0-789354 - April 2014

LANGUAGES

SPANISH	**ENGLISH**	**FRENCH**
Native	Fluent	Advanced (Avancé C1)

GITHUB

PROFESSIONAL (RESEARCH PUBLICATIONS)
https://github.com/willembrinck
PERSONAL (PROTOTYPES)
https://github.com/maxwills
SIDE-PROJECTS (OPEN SOURCE SOFTWARE)
https://github.com/xmadhack

REFERENCES

MR. STEVEN COSTIOU - THESIS SUPERVISOR
INRIA, LILLE, FRANCE 2020 - 2023
steven.costiou@inria.fr
+33 3 59 35 87 45
Languages: French and English.

MR. THOMAS SAUZEDDE - SOFTWARE ARCHITECT / TEAM LEADER
OLEA-MEDICAL (CANON MEDICAL SYSTEMS) 2019 - 2020
Contact information to be delivered on demand.
Languages: French and English.